

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIGURE 1

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA 5'untranscribed-intron 2, 821 bp

FEATURES

5'UTR 313-331
 exon 1 332-364
 intron 1 365-726
 exon 2 727-766
 intron 2 767-821>

BASE COUNT 139 a 219 c 259 g 204 t

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1 tctgagagcc caactctgct caatgaccat gttcccacat gctccaagcc acatccctc
61 aaaaagggtc cctctagctt gtcctcagtg acccaggagg cagctgagga ccaagtaccc
121 agattatccg gtgcgcctt tccctccag caaccccccag cttcaggc ttagcagct
181 gagcaaatgg gggcccttcc ctctcattgc ctgacaccca atcagagaga aaccgatcct
241 ggcaggggcag ggtgcccggg gccggccca gaatagtgca gcccagccac agtgtcgac
301 acttgctctc agttggcttg gggctggcca catggagccc gggctggagc acgcaactgct
361 cagggtatgg gggtcccagg ggagccggag cccgggcagc tgaggccaga agattgagcg
421 cacgggctgt gaatgtgtgt gtgggcgtgt gtgtcttctg gtgtgtgtt ggtctggatt
481 ttctcgtgaa tatgggcatg tgcatgtttt ggcatatgtt ttgtgagtgt gtgtggttct
541 gtgtgcctgg gagtgtttgg atgtgtgtgt ttctgtgtgt gtttgtgtat ggctgcattgt
601 ctgtgtatgg cgtgtgtctg agcgtgtgtt ttgggtgtca tgggtgtgtaa ggcgtgtgtt
661 cagggagaag gggtttggaa atgttaaggca ctttcccccac tccttcagaa actttctcc
721 ccacagaccc cttccctggag cagcccttggg gtttctgagc atcaaggtag ggagaatgcc
781 ccctccctgg ggcctaacct cttcccccac ttcccttgcc c
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FIGURE 2

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA intron 2-intron 4, 989 bp

FEATURES

intron 2 <1-21
 exon 3 22-177
 intron 3 178-541
 exon 4 542-945
 intron 4 946-989>

BASE COUNT 229 a 306 c 286 g 168 t

1 caggccccat tccccttcca gagatgagct tccttagagca agaaaacagc agctcatggc
 61 catcaccacgc tgtgaccagc agctcagaaa gaatccgtgg gaaacggagg gccaaagcct
 121 tgagatggac aaggcagaag tcgggtggagg aaggggagcc accaggtcag gggaaaggtg
 181 agggccaaggc cagttctggg gaggtggggag ccaggggaggt gggaaatccc agaggagcct
 241 gggctctggtc tctacctca gtcctccat aacacagagt tggacccaaac cttcatcttg
 301 tggcctcagt ctccctacat agtagagaac aaggcactgc agtgcagag gccagcatgg
 361 ccaactcaga aagatgggac agaggcacta cttggggcga ctctcaggc agccctcac
 421 ctgcaaatacg ggccacacaga tccaggttc ccactgtc tggatgtatggcgacag
 481 cagatgagaa cgtgctttgg aagatggagt tactgtcctc ttccccctc ccccaaaca
 541 ggtccccggc ccaggccagc tgctgagtc accgggctgg aggccacatt ccccaagacc
 601 acacccttgg ctcaagctga tcctgccggg gtgggactc cacaacagg gtgggactgc
 661 ctccccctcg actgtacagc ctcaactgc ggctccagca cagatgtatggatgt
 721 acggagttcc cagccacaga ggcctggag tggatgtatggatgtatggatgt
 781 cctggccctgt gcctgtcccc gcaggccccca ttcccaagc tgggctggga tgaccaactg
 841 cggaaaacccg gcgcccagat ctacatgcgc ttcatgcagg agcacacccg ctacatgc
 901 atgcaacta gctccaagct agtcatcttc gacaccatgc tggaggtgag gccacggc
 961 tgcccaacct gtactcactc tccatccac

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FIGURE 3

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 4-intron 10, 1722 bp

FEATURES

intron 4 <1-13
 exon 5 14-95
 intron 5 96-552
 exon 6 553-611
 intron 6 612-736
 exon 7 737-782
 intron 7 783-986
 exon 8 987-1041
 intron 8 1042-1242
 exon 9 1243-1369
 intron 9 1370-1522
 exon 10 1523-1688
 intron 10 1689-1722>

BASE COUNT 321 a 504 c 534 g 363 t

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1 cctggcccct cagatcaaga aggccttctt tgctctggtg gccaacggtg tgcgggcagc
61 ccctctatgg gacagcaaga agcagagctt tgggggtgag gagaggctgg ggaggtgaag
121 ggagatggag gaggtgaggg ggagatctt tacgggtgtt ctggggctga tctctgatat
181 accacaagct tggcttcagg ccaagcccag ccaggggccca gggtggagga aagtccatcc
241 ggagtctgca tggccagctg ggagaccctg gggctcaatt tccccatctg tggagccgct
301 atgaccagct gacaccccttc acctccgcta ctgcattggcc ctgtgccata ggtgcttaggg
361 agcaaatggg gggaggcagg agagaaagag ccccacttct caggcctggg ggctgtcccc
421 actgtcctgt tcccacagt cccactgtgt ctcaagcacaa ggacactggc agggtgggga
481 ggggatctga ccctcaacct gcctttcacc caaaggcccc gggctgaccc cctccccgccc
541 cctcccccgc agggatctg accatcaactg attcatccct ggtgctgcat cgctactaca
601 ggtccccccct ggtgaggagt gggctggaa tcttatggc accccagaggg gcgggggcgg
661 aggggatgtcc tcctggagcc tggtgcctca gaagcccacg tctttctgac ttctggagtc
721 ctgtcgatgt ctctaggcttcc agatctatga gattgaacaa cataagattt agacctggag
781 gggtagtgg ggagaggaac ccggaaaggc gctgttgggtt atggggcc agggcttaag
841 gtggaggatg ggcagtgggg atgtcctgga gtgaacaggg gagggacaat aggagcctcg
901 ggtgcctgac ggaagggaag ctgcctggga ctgcaagggtt aggcagggtt cccgctcccc
961 tggcctgact ctggcttctt ctgcagagat ctacctgcaaa ggctgcttca agccctgtt
1021 ctccatctct cctaattgata ggtgggtgtc tctgctcatt cacctgagcc tcctccccc
1081 acagtccccct tccccagttcc cactcaagctc tgaacttcacc tcttcatttccctt aggccggcaca
1141 cagacaagggg agccttgggt ccctgcctc ctttttaggg gcctggatg gaggttgtct
1201 ctcccttaggc tgcccccagg ctcactgtctc ccattctctgc agccttttgc aagctgtctca
1261 caccctcatc aagaaccggc tccatcgctt gcctgttctt gaccgggtt caggcaacgt
1321 actccacatc ctcacacaca aacgcctgtt caagttctgtt cacatcttgc taagcctggg
1381 cccaggtggg aggaaggggg agacctgggc aggtgtatcg agggcctgag gagtttcag
1441 cccttagcgt cgtggggaaag agctgggagc cctcttgaag ctgctgatc cctgatctcc
1501 acctggtccc catccataacc agggttccct gctggccccc ccctcccttcc tctaccgcac
1561 tatccaagat ttgggcattcg gcacattccg agacttggct gtgggtgttgg agacagcacc
1621 catccctgact gcactggaca tctttgttggc ccggcggttgc tctgcactgc ctgtggtcaa
1681 cgaatgttggt acccacccttcc aggtatggagag gctcgccgttgc ga

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FIGURE 4

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 10-3'UTR, 1014 bp

FEATURES

intron 10	<1-41
exon 11	42-79
intron 11	80-249
exon 12	250-396
intron 12	397-739
exon 13	740-856
3'UTR	857-1014>

BASE COUNT 192 a 325 c 271 g 226 t

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1 cctgtctttc tccccccacc ccccacacaacc accctctgca ggtcaggtcg tgggcctcta
61 ttcccgcttt gatgtgattt taagtgtcg tggaaagggtg ggatgctgca gggaggctaa
121 ggggtgtgggg atgggtgggg ggcctctgtg gaccaggggg accttgacaa gtatgcaggg
181 gttgacatct gtagggtagg agcccaggca aggggggtgac taggagccat acttctct
241 ctgcccccagc acctggctgc ccagcaaacc tacaaccacc tggacatgag tggggagaa
301 gccctgagggc agaggacact atgtctggag ggagtccctt cctgcccagcc ccacggagac
361 ttgggggaag tgatcgacag gattgctcg gggcagggtac cgtgtgcctt ccattcatgc
421 ccccaacaca tatagcccaag tccttctcat gcacggctcc agccatccct gaacatcgaa
481 cacctggcct atccttccat ttcatgacca actcctgggtg cccacactgg cctgcacctg
541 gtcctgttcca tggggccctt atgcccagggtc tcaactgccaa ctgatcacct taggcccggc
601 acaccatcccc taactggttt cttaggagacg ctctctccct cagtcatgtt gggttgtttc
661 ccctgattct tggccaccaac ctcagtagct gctgttagccc catggctctg cccctctact
721 gaacattgctg gacccacagg tacacaggct ggtgcttagt gacgagaccc agcatctctt
781 gggcgtggtc tccctctccg acatccttca ggcactgggtg ctcagccctg ctggcatcga
841 tgccctcgaa gcctgagaag atctgagtcc tcaatccaa gccacctgca cacctggaaag
901 ccaatgaagg gaactggaga actcagccctt catcttcccc cacccccatt tgctggttca
961 gctatgattc aggttaggctc tgccctgggc catgacacca gcctttagt cttc
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FIGURE 5

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), cDNA including the complete cds, 1647 bp

FEATURES

CDS 20-1489

/note="predicted coding region"

/translation="MEPGLEHALRRTPSWSSLGGSEHQEMSLEQENSSWPSAVTSSSERIRGKRRAKALRWTRQKS
 VEEGEPPGQGEGPRSRPAAESTGLEATFPKTTPLAQADPAGVGTPTGWDCLPSDCTASAAGSSTDDVELATEFPATEA
 WECELEGLLEERPALCLSPQAPFPKLGWDELRKPGQIYMRFMQEHCTYDAMATSSKLVIFDTMLEIKKAFFALVANG
 VRAAPLWDSKKQSFGVMLTIDFILVLHRYYRSPLVQIYEIEQHKIETWREIYLQGCFKPLVSISPNDLFEAVYTLIK
 NRIHRLPVLDLDPVSGNVLHILTHKRLLKFLHIFGSLLPRPSFLYRTIQDLSGITFRDLAVVLETAPILTALDIFVDRVS
 ALPVVNECGQVVGLYSRFDVIHLAAQQTYNHLDMSVGEALRQRTLCLEGVLSCQPHESLGEVIDRIAREQVHRLVLVDE
 TQHLLGVVSLSDILQALVLSAGIDALGA"

BASE COUNT 346 a 502 c 462 g 337 t

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  1 ttggctctggg gctggccaca tggagccgg gctggagcac gcactgcgcga ggaccgccttc
  61 ctggagcagc cttgggggtt ctgagcatca agagatgagc ttcctagagc aaaaaacag
121 cagctcatgg ccatcaccag ctgtgaccag cagctcagaa agaatccgtg ggaaacggag
181 ggccaaagcc tttagatgga caaggcagaa gtcgggtggag gaaggggagc caccaggta
241 gggggaaaggc ccccggtcca gcccagctgc tgagtccacc gggctggagg ccacattccc
301 caagaccaca cccttgggtc aagctgatcc tgccgggtgt ggcactccac caacagggtg
361 ggactgcctc ccctctgact gtacagcctc agctgcaggc tccagcacag atgatgtgga
421 gctggccacg gagttccacg ccacagaggc ctgggagtgt gagctagaag gcctgctgga
481 agagaggcct gcccctgtgcc tgtcccgca ggccccattt cccaagctgg gctggatgaa
541 cgaactgcgg aaacccggcg cccagatcta catgcgcctc atgcaggagc acacctgcta
601 cgatgccatg gcaactagct ccaagcttagt catcttcgac accatgctgg agatcaagaa
661 ggcttcttt gctctgggtt ccaacgggtt gcccggcagcc cctctatggg acagcaagaa
721 gcagagcttt gtggggatgc tgaccatcac tgacttcattt ctgggtctgc atcgtacta
781 caggcccccc ctggtccaga tctatgagat tgaacaacat aagattgaga cctggaggga
841 gatctacctg caaggctgt tcaagcctct gttctccatc tctcctaattt atagcctgtt
901 tgaagctgtc tacaccctca tcaagaaccg gatccatcgcc ctgcctgttc ttgaccgggt
961 gtcaggcaac gtactccaca tcctcacaca caaacgcctt ctcaagttcc tgacatctt
1021 tggttccctg ctgccccggc cctcccttctt ctaccgcact atccaagatt tggcatcg
1081 cacattccga gacttggctg tgggtctgg gacagcaccc atcctgactg cactggacat
1141 ctttgtggac cggcgtgtgt ctgactgccc tgggtcaac gaatgtggc aggtcgtggg
1201 cctctattcc cgttttgcattt tgattcacct ggctgcccag caaacccatca accacccatgg
1261 catgagtgtg ggagaagccc tgaggcagag gacactatgt ctggaggagg tccttcctg
1321 ccagccccac gagagctgg gggaaagtgtat cgacaggatt gctcggggagc aggtacacag
1381 gctggtgcta gtggacgaga cccacatctt cttggggctgt gtctccctct ccgacatcc
1441 tcagggactg gtgctcagcc ctgctggcat cgatgcctc gggccctgag aagatctgag
1501 tcctcaatcc caagccaccc tccacacccatgg aagccatga agggaaactgg agaactcagc
1561 cttcatcttc ccccccattt atttgtgtt tcaatgtt ttcaggtagg ctctgcctt
1621 ggcctatgaca ccagcctttt agtcttc
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